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## Memorandum

**From:** Steve Willis  
**To:** Wayne Miller  
**Date:** June 5, 2016  
**Subject:** Site visit to observe EBR well drilling activities at Former Williams AFB Site ST012.

Wayne:

This memo summarizes my visit to Site ST012 conducted on June 5, 2016. The purpose of the site visit was to monitor drilling and well installation activities and record my observations.

When I arrived at the site, drilling of well CZ21 was complete to a total depth of 160' and YJD was in the process of installing the stainless steel well casing. Kyle Keegan stated that light hydrocarbon odors were detected in vadose zone cuttings starting at about 120'. I did not detect any odors in the cuttings that were laid out for inspection. Based on the minimal evidence of contamination, Kyle indicated that no samples were collected, and no dye test was conducted. The well was being constructed with the screened interval from 140' – 150', and a 10' section of blank casing as a sump from 150' – 160'. I asked Kyle the reason for the sump, and he said he wasn't sure, but he thought it might be to prevent silting up of the extraction pump. The EBR work plan shows a screened interval of 145' – 160' for this well.

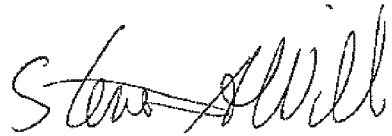
Drilling of well UWBZ29 was in progress, with the last sample interval from 186' – 191' being extracted. Kyle stated that hydrocarbon odors were also detected in this boring beginning at about 120' and continuing throughout the boring. A PID reading of 200 ppm was detected at 120'. A positive dye test was obtained from silty clay cuttings collected at approximately 165'. Air temperatures measured at the Rotasonic core barrel were as high as 200° F. Kyle stated that the well will be constructed of stainless steel, with screen from 170' – 190'.

YJD was continuing construction of well LSZ46 east of Sossaman Rd. The driller stated that they would likely get started on well LSZ45 later today and may be able

to drill to 50'.

Please contact me if you have comments or questions regarding this memo.

Thank you,

A handwritten signature in black ink, appearing to read "Steven A. Will". The signature is written in a cursive, flowing style with some loops and a horizontal line crossing through the middle.

## **SITE PHOTOS**



Photo 1. Cobble Zone drill cuttings from well CZ21. Silty to gravelly sand.



Photo 2. Drill cuttings from well UWBZ29 at 164' – 166'. Silty clay. Positive dye test.



Photo 3. Well CZ21 well construction.



Photo 4. Well LSZ46 well construction.